



COMMONWEALTH of VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY  
A Nationally Accredited Laboratory

700 NORTH 5TH STREET  
RICHMOND, VIRGINIA 23219  
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II  
SERIAL NUMBER: 010586  
CERTIFICATION DATE: January 7, 2014  
DATE RECERTIFICATION DUE: July 6, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

0.020 ± 0.004 g/210 L      0.150 ± 0.007 g/210 L  
0.080 ± 0.004 g/210 L      0.250 ± 0.007 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

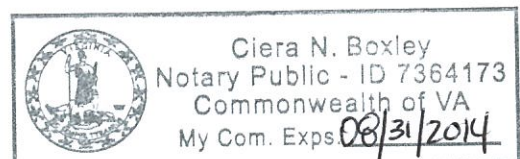
Sarah E. Dersch  
Forensic Scientist

CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 24<sup>th</sup> day of  
January, 2014 by Sarah E. Dersch

  
Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



msk

**Department of Forensic Science  
Breath Alcohol Section  
Instrument Maintenance History  
1/1/1990 To 1/8/2014**

*HMS  
SED*

<b>Instrument Serial Number:</b> 010586	<b>As of 08-Jan-14</b>
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Maintenance Date	Certification Date	Technician Initials	Remarks
07-Jan-14	07-Jan-14	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
19-Jul-13	19-Jul-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
29-Jan-13	29-Jan-13	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
08-Nov-12	08-Nov-12	SED (24178)	MOVED INSTRUMENT TO NEW LOCATION. FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED.
09-Aug-12	09-Aug-12	HMS (18910)	CERTIFIED
22-Feb-12	22-Feb-12	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
01-Sep-11	01-Sep-11	HMS (18910)	CERTIFIED
23-Mar-11	23-Mar-11	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
06-Oct-10	06-Oct-10	HMS (18910)	CALIBRATED AND CERTIFIED.
28-Apr-10	28-Apr-10	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
02-Nov-09	02-Nov-09	HMS (18910)	CERTIFIED
27-May-09	27-May-09	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
08-May-09	11-Feb-09	HMS (18910)	REPLACED PRINTER.
11-Feb-09	11-Feb-09	HMS (18910)	CERTIFIED.
24-Dec-08	24-Dec-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

*Handwritten initials/signature*

# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010586** Worksheet Start Date **1/7/2014**  
Location **Accomack County**  
Address **23371 Front St., Accomac, VA 23301**  
DFS Technician **Heather Stanton** License No. **18910**  
☐ Laboratory ☒ On-Site

Site Specification: No detrimental environmental conditions exist. ☒

Instrument Barometer (mm HG) **768** Reference Barometer (mm HG) **770**  
Reference Barometer(RB)Serial # **009113** RB Calibration Due **5/8/2014**

## Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.305
0.300	0.303	0.293	0.312	Sample 2	0.305
Precision		sample min	sample max	Sample 3	0.304
0.001		0.304	0.305		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.101
0.100	0.101	0.097	0.104	Sample 2	0.101
Precision		sample min	sample max	Sample 3	0.101
0		0.101	0.101		

Dry gas standard Lot No. (with tank no.) **AG332301-02**

☒ Replaced dry gas standard (+O-ring)

☐ Installed at Location

☐ Removed to DFS-Central

Supplies

Mouthpieces

Certificates of Analysis

Operator Worksheet

Other:

50  
50  
2 pads

Notes:

Instrument Serial Number

010586

Certification Date

1/7/2014

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.252
0.250	0.253	0.245	0.260	<b>Sample 2</b>	0.251
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.251
0.001		0.251	0.252		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.151
0.150	0.152	0.147	0.156	<b>Sample 2</b>	0.151
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.151
0		0.151	0.151		

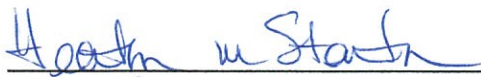
<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.081
0.080	0.081	0.078	0.084	<b>Sample 2</b>	0.081
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.081
0		0.081	0.081		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.020
0.020	0.020	0.017	0.023	<b>Sample 2</b>	0.020
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.020
0		0.020	0.020		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

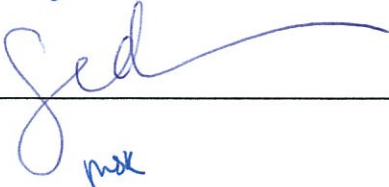
DFS Technician



Date

1/8/14

Issuing Analyst

  
msk

Date

1/16/14

HMS  
Flad

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010586      Test Number: 494

Test Date: 01/07/2014      Test Time: 13:25 EST

Technician Initials: HMS

Dry Gas Target: 0.253

Lot Number: 2961225012-08      Exp Date: 11/01/2014

Tank Pressure: 100 psi      Barometric Pressure: 768 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:25
BLK	0.000	13:26
CHK	0.252	13:27
BLK	0.000	13:28
CHK	0.251	13:29
BLK	0.000	13:31
CHK	0.251	13:32
BLK	0.000	13:33

**Success**

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

*HMS*  
*rel*

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010586      Test Number: 495

Test Date: 01/07/2014      Test Time: 13:35 EST

Technician Initials: HMS

Dry Gas Target: 0.152

Lot Number: 2951215012-02      Exp Date: 11/01/2014

Tank Pressure: 355 psi      Barometric Pressure: 768 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:35
BLK	0.000	13:36
CHK	0.151	13:37
BLK	0.000	13:38
CHK	0.151	13:39
BLK	0.000	13:40
CHK	0.151	13:41
BLK	0.000	13:43

**Success**

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

hms  
jed

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010586      Test Number: 496  
Test Date: 01/07/2014      Test Time: 13:44 EST

Technician Initials: HMS

Dry Gas Target: 0.081

Lot Number: 0771308012-04      Exp Date: 05/01/2015

Tank Pressure: 502 psi      Barometric Pressure: 768 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:45
BLK	0.000	13:45
CHK	0.081	13:46
BLK	0.000	13:48
CHK	0.081	13:48
BLK	0.000	13:50
CHK	0.081	13:50
BLK	0.000	13:52

**Success**

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

HMS  
sid

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010586      Test Number: 497

Test Date: 01/07/2014      Test Time: 13:53 EST

Technician Initials: HMS

Dry Gas Target: 0.020

Lot Number: 0771302011-04      Exp Date: 05/01/2015

Tank Pressure: 590 psi      Barometric Pressure: 768 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:53
BLK	0.000	13:54
CHK	0.020	13:55
BLK	0.000	13:56
CHK	0.020	13:57
BLK	0.000	13:58
CHK	0.020	13:59
BLK	0.000	14:00

**Success**

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success



HMS  
sid

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010586      Test Number: 498

Test Date: 01/07/2014      Test Time: 14:02 EST

Dry Gas Target: 0.303

Lot Number: AG322702-08      Exp Date: 08/15/2015

Tank Pressure: 237 psi      Barometric Pressure: 768 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:03
CHK	0.305	14:04
BLK	0.000	14:06
CHK	0.305	14:07
BLK	0.000	14:09
CHK	0.304	14:09

Test Status: *Success*

Calibration CRC: 14FF31B6

AMS  
gud

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010586      Test Number: 499

Test Date: 01/07/2014      Test Time: 14:14 EST

Dry Gas Target: 0.101

Lot Number: AG332301-02      Exp Date: 11/19/2015

Tank Pressure: 1120 psi      Barometric Pressure: 768 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:15
CHK	0.101	14:15
BLK	0.000	14:17
CHK	0.101	14:18
BLK	0.000	14:19
CHK	0.101	14:20

Test Status: *Success*

Calibration CRC: 14FF31B6

Ans  
sid



COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED <b>INSTRUMENT, TEST,</b>	NAME OF COURT <b>DFS</b>
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY <b>STANTON, HEATHER, M</b>		AGENCY <b>DFS Central Lab</b>
DFS LICENSE NUMBER <b>18910</b>	LICENSE EXPIRES <b>10/01/2014</b>	DATE TEST CONDUCTED <b>01/07/2014</b>
TEST EQUIPMENT NUMBER <b>010586</b>		

RESULTS: TIME SAMPLE TAKEN 14:27 EST

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND

THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20 \_\_\_\_\_.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_  
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_  
OPERATOR'S SIGNATURE



# IntoxNet MIS Report

Report Generated 08 Jan 2014 at 14:56

*Handwritten signature/initials*

## Test Results

Instrument Serial Number 010586

Test # 000500 Subject Test

Test Location 1 Department of

Test Date 07 Jan 2014

Test Location 2 Forensic Science

Test Time 14:21

Remote/Local Local

Test Location 3

System Check Passed

Operator's Last Name STANTON

Agency DFS Central Lab

Card Serial Number 118910

Subject's Last Name INSTRUMENT

Subject's Middle Initial

Driver's License Number

Driver's License State

Operator's First Name HEATHER

Effective Date 10/01/2012

Subject's Date of Birth 00/00/0000

License Number 18910

Operator's Middle Initial M

Expiration Date 10/01/2014

Subject's First Name TEST

Subject's Sex Male

Driver's License Expiration 00/00/0000

Court Name DFS

End Date 07 Jan 2014

End Time 14:29

Result Time 14:27

Result Date 07 Jan 2014

Result 0.00

Data Type DIAG

Data Type BLK

Data Type CHK

Data Type BLK

Data Type SUBJ

Data Type BLK

Data Type SUBJ

Data Type BLK

Standard Type Dry Gas Std

Standard Lot Number AG332301-02

Tank Pressure 1120

Sample Value Pass

Sample Value 0.000

Sample Value 0.101

Sample Value 0.000

Sample Value 0.000

Sample Value 0.000

Sample Value 0.000

Sample Value 0.000

Sample Time 14:21

Sample Time 14:22

Sample Time 14:23

Sample Time 14:24

Sample Time 14:25

Sample Time 14:26

Sample Time 14:27

Sample Time 14:28

Standard Value 0.101

Standard Expiration Date 11/19/2015

Barometric Pressure 768 mmHg

Blow Sample Number 1

Blow Duration 3.01 sec

Blow Volume 1756 cc

End-of-Blow Time 14:25

Blow Sample Number 2

Blow Duration 3.46 sec

Blow Volume 1737 cc

End-of-Blow Time 14:27

Tamper Evident Stamp 6b53bacd

Test Status Success

Test Status Code 0